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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/824,852	JACOBS ET AL.
Office Action Summary	Examiner	Art Unit
	Beth Van Doren	3623
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI (6(a). In no event, however, may a reply be ill apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	ON. e timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		•
Responsive to communication(s) filed on 14 No. This action is FINAL . 2b) ☐ This Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final. ce except for formal matters,	
Disposition of Claims		•
4) ☐ Claim(s) 1-27,31-36,38-60 and 62-81 is/are per 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed: 6) ☐ Claim(s) 1-27,31-36,38-60 and 62-81 is/are rejection is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	•
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction	epted or b) objected to by the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Off	ce Action or form PTO-152.
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applic ity documents have been rece (PCT Rule 17.2(a)).	ation No ived in this National Stage
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Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 20070118.	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:	

DETAILED ACTION

1. The following is a Final office action in response to communications received 11/14/06. Claims 28 and 30 have been canceled. Claims 1, 11, 21, 34, and 58 have been amended. Claims 1-27, 31-36, 38-60, and 62-81 are now pending in this application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-27, 31-36, 38-60, and 62-81 are rejected under 35 U.S.C. 103(a) as being unpatentable over MDSI Mobile Data Solutions (www.mdsi-advantex.com) in view of Sisley et al. (U.S. 5,467,268) and in further view of Lesaint et al. (U.S. 6,578,005).

As per claim 1, MDSI Mobile Data Solutions teaches a computer-implemented method for scheduling an order to a mobile service representative, the method comprising:

negotiating a reservation to perform an order for a customer against a schedule (See page 3, section 1, and page 4, sections 2-3, wherein the reservation is negotiated);

adding a reservation, wherein adding a reservation includes identifying a duration, a priority, a location, an appointment window, a mobile service representative, a bumping indicator (See page 3, page 4, sections 2-3, and page 5, sections 2-3, which disclose these criteria);

analyzing shifts of mobile service representatives to identify shifts that are suitable for reservation (See page 3, page 4, sections 2-3, and page 5, sections 2-3, wherein the availability of a mobile service representative to take a call is determined);

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booking the order to one of the shifts of mobile service representatives according to objective criteria (See page 3, sections 1-2, and page 4, wherein the service order is booked to a schedule of a mobile worker, based on at least the criteria of location);

optimizing periodically the shift of the mobile service representative (See page 3, section 1, and page 4, sections 2-3, wherein the shifts are rebalanced periodically).

However, MDSI Mobile Data Solutions does not expressly disclose sorting the identified shifts according to objective criteria or booking a shift starting with the best shift and in descending order to the worst shift. Further, MDSI Mobile Data Solutions does not expressly disclose an aggregation indicator, where aggregating reservations of the shift have enabled aggregation indicators and are in accordance with an aggregation parameter set defining information of reservations to be compared during aggregation.

Sisley et al. discloses sorting the identified shifts according to objective criteria or booking a shift starting with the best shift and in descending order to the worst shift (See column 5, line 50-column 6, line 15, column 7, lines 9-20, column 8, lines 1-15, column 9, lines 20-30, and column 10, lines 15-30, which discusses sorting the shifts based on skills, availability, etc. and then listing them in a "best-first" queue). However, Sisley et al. does not expressly disclose aggregating reservations of the shift having enabled aggregation indicators and in accordance with an aggregation parameter set defining information of reservations to be compared during aggregation.

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Lesaint et al. teaches aggregation indicators and aggregating reservations of the shift having enabled aggregation indicators and in accordance with an aggregation parameter set defining information of reservations to be compared during aggregation (See column 12, lines 30-50, column 14, lines 15-25, wherein the order is made up of multiple aggregated orders that include information about specific ordering or requirements).

Both Sisley et al. and MDSI Mobile Data Solutions disclose systems that assign mobile field technicians to work calls using automated means. Further, both disclose assigning the best technicians based on the appointment window, a duration, a priority, a location, and a set of skills of the technician and service call. It would have been obvious to one of ordinary skill in the art at the time of the invention to sort the identified shifts according to objective criteria and book shifts starting with the best shift first according to the objective criteria in order to increase customer satisfaction improving the timeliness and predictability of resource delivery and increase dispatcher productivity through automated assignment and scheduling. See column 3, lines 50-55, of Sisley et al.

Further, all of MDSI Mobile Data Solutions, Sisley et al., and Lesaint et al. disclose systems that optimize the scheduling of tasks to workers in a field technician service industry, taking into account task/order requirements and worker constraints. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include scheduling aggregate orders in order to more efficiently meet the needs of the person placing the order. See column 3, lines 50-65.

As per claim 2, MDSI Mobile Data Solutions teaches configuring a constraint set, wherein the act of configuring allows a user to modify the constraint set so as to control the way

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in which orders are assigned to a mobile service representative (See page 4, sections 2-3, wherein the system has a set including priority, skills, etc. that is used to assign service orders).

As per claim 3, MDSI Mobile Data Solutions wherein negotiating includes using a window over the schedule, wherein the window defines a set of shifts in the schedule that can be booked by the act of booking (See page 4, sections 2-3, and page 5, sections 2-3, wherein a window is used to view the availability of the mobile workers).

As per claim 4, MDSI Mobile Data Solutions discloses wherein negotiating includes negotiating an appointment window for the order so as to allow the mobile service representative to begin the performance of the order within the time frame of the appointment window (See page 4, sections 2-3, and page 5, sections 2-5, which discusses performance of the service order).

As per claim 5, MDSI Mobile Data Solutions discloses bumping an order, which has a lower priority, for another order, which has a higher priority (See page 3, section 2, page 4, sections 1-3, wherein the service orders are rebalanced based on priority and emergencies).

As per claim 6, MDSI Mobile Data Solutions discloses a priority of an order (See page 3, section 2, and page 4, which discuss priorities of tasks). However, MDSI Mobile Data Solutions does not expressly disclose and Lesaint et al. discloses escalating the priority of an order over time when the order has not been performed by the mobile service representative (See column 6, lines 6-17, column 21, lines 5-30, wherein queue time is considered, where a call has a priority as well as a queue time beyond which the call is considered tardy).

Both Sisley et al. and MDSI Mobile Data Solutions disclose systems that assign mobile field technicians to work calls using automated means. Sisley et al. specifically discloses the amount of time allowed between the receipt of a service call and the assignment of the call to a

technician. It would have been obvious to one of ordinary skill in the art at the time of the invention to escalate the priority of an order when it has not been performed in order to increase customer satisfaction improving the timeliness and predictability of resource delivery and increase dispatcher productivity through automated assignment and scheduling. See column 3, lines 50-55.

As per claim 7, MDSI Mobile Data Solutions teaches scheduling an order with a mobile service representative (See page 3, sections 1-2, page 4, wherein the service order is booked to a schedule). However, MDSI Mobile Data Solutions does not expressly disclose splitting an order to a set of orders when the performance of the order requires a number of days to perform the order.

Sisley et al. discloses an order having an estimated call duration (See column 6, lines 15-30).

Both Sisley et al. and MDSI Mobile Data Solutions disclose systems that assign mobile field technicians to work calls using automated means. It is old and well known in the service industry that not all service requests are compliable in a single day and require multiple days of work. Therefore, since MDSI Mobile Data Solutions and Sisley et al. disclose assigning field service workers to requests of a customer based on the requirements of the customer and an estimated call duration, it would have been obvious to one of ordinary skill in the art at the time of the invention to allow for the assignment of an order over multiple days in order to order to more efficiently meet the needs of the person placing the order. See column 3, lines 50-55 of Sisley et al.

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As per claim 8, MDSI Mobile Data Solutions teaches wherein optimizing includes optimizing a single shift of a mobile service representative so as to shorten travel time between orders booked in the single shift (See page 4, section 3, and page 5, sections 2-3, wherein mobile workers are assigned as close to their location as possible).

As per claim 9, MDSI Mobile Data Solutions discloses wherein optimizing includes optimizing at least one pair of shifts, wherein optimizing is selected from a group consisting of swapping orders between the at least one pair of shifts and reassigning orders between the at least one pair of shifts (See page 4, sections 2-3, and page 5, sections 2-3, wherein the dispatcher rebalances the schedule).

As per claim 10, MDSI Mobile Data Solutions teaches wherein booking includes booking the order to a shift of the mobile service representative if the mobile service representative has the set of skills and the set of equipment (See page 4, sections 2-3, which discusses criteria for booking a mobile worker).

Claims 11-20 recite equivalent limitations to claims 1-10, respectively, and are therefore rejected using the same art and rationale as applied above.

As per claim 21, MDSI Mobile Data Solutions discloses a computer-implemented scheduling system for a dispatching environment having a scheduling engine for scheduling mobile service representative, the scheduling engine comprising:

a negotiator operable to negotiate an appointment window to perform an order, the order defined by a data structure that includes at least one of an appointment window, a duration, a priority, a location, and a set of skills required to carry out the order, and further includes at least one of a bumping indicator, and an aggregation indicator (See page 3, page 4, sections 2-3, and

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page 5, sections 2-3, which discloses at least a location and an aggregation indicator. See page 3, section 1, and page 4, sections 2-3, wherein the reservation is negotiated);

an assignment filter configured to analyze shifts of mobile service representatives to identify shifts that are suitable for the reservation (See page 3, page 4, sections 2-3, and page 5, sections 2-3, wherein the availability of a mobile service representative to take a call is determined);

an assigner operable to assign the order to a shift of a mobile service representative (See page 3, sections 1-2, page 4, wherein the service order is booked to a schedule of a mobile worker); and

an optimizer operable to optimize dynamically at least one shift so as to enhance the scheduling system in accordance with a predetermined set of business objectives (See page 3, section 1, and page 4, sections 2-3, wherein the shifts are rebalanced periodically).

However, MDSI Mobile Data Solutions does not expressly disclose sorting the identified shifts according to objective criteria or booking a shift starting with the best shift and in descending order to the worst shift according to the objective criteria. Further, MDSI Mobile Data Solutions does not expressly teach an aggregator component is operable to aggregate reservations of the shift having enabled aggregation indicators and in accordance with an aggregation parameter set defining information of reservations to be compared during aggregation.

Sisley et al. discloses sorting the identified shifts according to objective criteria or booking a shift starting with the best shift and in descending order to the worst shift (See column 5, line 50-column 6, line 15, column 7, lines 9-20, column 8, lines 1-15, column 9, lines 20-30,

and column 10, lines 15-30, which discusses sorting the shifts based on skills, availability, etc. and then listing them in a "best-first" queue). However, Sisley et al. does not expressly disclose aggregating reservations of the shift having enabled aggregation indicators and in accordance with an aggregation parameter set defining information of reservations to be compared during aggregation.

Lesaint et al. teaches an aggregator component in the scheduling apparatus to aggregate reservations of the shift having enabled aggregation indicators and in accordance with an aggregation parameter set defining information of reservations to be compared during aggregation (See column 12, lines 30-50, column 14, lines 15-25, wherein the order is made up of multiple aggregated orders that include information about specific ordering or requirements).

Both Sisley et al. and MDSI Mobile Data Solutions disclose systems that assign mobile field technicians to work calls using automated means. Further, both disclose assigning the best technicians based on the appointment window, a duration, a priority, a location, and a set of skills of the technician and service call. It would have been obvious to one of ordinary skill in the art at the time of the invention to sort the identified shifts according to objective criteria and book shifts starting with the best shift first according to the objective criteria in order to increase customer satisfaction by improving the timeliness and predictability of resource delivery and increase dispatcher productivity through automated assignment and scheduling. See column 3, lines 50-55.

Further, all of MDSI Mobile Data Solutions, Sisley et al., and Lesaint et al. disclose systems that optimize the scheduling of tasks to workers in a field technician service industry, taking into account task/order requirements and worker constraints. Therefore, it would have

been obvious to one of ordinary skill in the art at the time of the invention to include scheduling aggregate orders in order to more efficiently meet the needs of the person placing the order. See column 3, lines 50-65.

As per claim 22, MDSI Mobile Data Solutions teaches wherein the order is defined by a data structure that includes an appointment window, a duration, a priority, a location, and a set of skills required to carry out the order, and wherein the data structure resides on a computer media (See page 1, section 1, page 3, page 4, sections 2-3, and page 5, section 2, which disclose duration, priority, location, etc.).

As per claim 23, MDSI Mobile Data Solutions teaches wherein the mobile service representative is defined by a data structure that includes a set of skills that the mobile service representative possesses and the equipment that the mobile service representative possesses, and wherein the data structure resides on a computer media (See page 4, sections 2-3, which discusses criteria for booking a mobile worker).

As per claim 24, MDSI Mobile Data Solutions teaches assigning orders to mobile service representatives' shifts using constraints of the order and constraints of the mobile representative (See page 4, sections 2-3). However MDSI Mobile Data Solutions does not expressly disclose a shift being defined by a data structure that includes a shift start date and start time, a shift end date and end time, a set of break start dates and start time, a set of break end dates and end times, and a starting location and an ending location, and wherein the data structure resides on a computer media.

Sisley et al. discloses a shift being defined by a data structure that includes a shift start date and start time, a shift end date and end time, a set of break start dates, a set of break end

dates, and a starting location and an ending location, and wherein the data structure resides on a computer media (See column 5, line 45-column 6, line 25 and 30-50, column 7, lines 25-42).

However, Sisley et al. does not expressly disclose the start and end times for the breaks.

Lesaint et al. discloses start and end times associated with breaks (See column 11, lines 55-65).

Sisley et al., Lesaint et al., and MDSI Mobile Data Solutions all disclose systems that assign mobile field technicians to work calls using automated means, as discussed above.

Further, Sisley et al. and MDSI Mobile Data Solutions disclose assigning the best technicians based on the appointment window, a duration, a priority, a location, and a set of skills of the technician and service call. Sisley discloses start and end days for employee vacations, appointments, etc. when the technician will not be working. Appointments and vacations having both dates and times associated with them is old and well known in appointment systems.

Lesaint et al. specifically discloses start and end times associated with breaks, such as lunch breaks. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include specific times associated with the shift events of breaks in order to increase customer satisfaction by improving the timeliness and predictability of resource delivery and increase dispatcher productivity through automated assignment and scheduling, which includes shift times. See column 3, lines 50-55. See also column 6, lines 15-25, which discusses times being placed on the assignment calendar.

As per claim 25, MDSI Mobile Data Solutions teaches wherein the assigner accounts for the travel time of the mobile service representative of the mobile service representative in assigning the order to the shift of the mobile service representative (See page 4, sections 2-3, and

page 5, sections 2-3, wherein the system has a set including travel time). However, MDSI Mobile Data Solutions does not expressly disclose and Sisley et al. discloses break time (See column 5, line 65-column 6, line 5, which discusses assigning orders with a consideration of a worker's breaks).

Both Sisley et al. and MDSI Mobile Data Solutions disclose systems that assign mobile field technicians to work calls using automated means. Further, both disclose assigning the best technicians based on the appointment window, a duration, a priority, a location, and a set of skills of the technician and service call. Sisley specifically discloses start and end days for employee vacations, appointments, etc. when the technician will not be working. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include specific times associated with the shift events of breaks in order to increase customer satisfaction by improving the timeliness and predictability of resource delivery and increase dispatcher productivity through automated assignment and scheduling, which includes shift times. See column 3, lines 50-55.

As per claim 26, MDSI Mobile Data Solutions teaches wherein the appointment window includes an identifier, a start time, and an end time, and wherein the appointment window is visible to the negotiator (See page 3, section 1, page 4, sections 2-3, and page 5, sections 2-3, which discuss an appointment window visible to the negotiator).

As per claim 27, MDSI Mobile Data Solutions teaches wherein the order includes a predetermined level of priority, wherein the predetermined level of priority of the order determines whether the order will be bumped by another order having a higher level of priority (See page 3, section2, page 4, sections 1 and 3, discussing priority of an order in scheduling).

As per claim 31, MDSI Mobile Data Solutions teaches a travel time component that considers travel time when assigning shifts to mobile representatives (see page 4, section 2-3, and page 5, sections 2-3, wherein the location of the worker is considered when the task is assigned). However, MDSI Mobile Data Solutions does not expressly disclose and Sisley et al. discloses calculating the travel time between the start of a shift to the first order assigned to the shift and the travel time between two orders, and the travel time between the last order assigned to the shift and the end of the shift (See column 6, lines 18-26, and column 18, lines 43-55, which discloses travel time considerations).

Both Sisley et al. and MDSI Mobile Data Solutions disclose systems that assign mobile field technicians to work calls using automated means. Sisley specifically discloses travel time between shift assignments. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to take into consideration travel time when assignment technicians to service calls in order to increase customer satisfaction by improving the timeliness and predictability of resource delivery and increase dispatcher productivity through automated assignment and scheduling, which includes shift times. See column 3, lines 50-55.

As per claim 32, MDSI Mobile Data Solutions teaches wherein the optimizer includes an optimizing filter, wherein the optimizing filter finds a shift into which a reservation fits, with the purpose of better satisfying the optimization objectives (See page 3, sections 1-2, and page 4, wherein the shifts are optimized automatically).

As per claim 33, MDSI Mobile Data Solutions teaches wherein the optimizer includes an optimization objective component having a set of optimization objectives, wherein the optimization objective component determines the degree to which the set of optimization

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objectives are satisfied if the optimizer were to optimize a shift or a pair of shifts (See page 3, sections 1-2, and page 4, wherein the shifts are optimized automatically).

Claim 34 recites substantially similar elements to claim 1 and is therefore rejected using the same art and rationale as set forth above.

As per claim 35, MDSI Mobile Data Solutions discloses adding a mobile service representative, wherein adding the mobile service representative includes identifying a working area of the mobile service representative, a set of skills of the mobile service representative, and a set of equipment types that is possessed by the mobile service representative (See page 4, sections 2-3, which considers attributes of the mobile worker in the assignment).

As per claim 36, MDSI Mobile Data Solutions teaches adding orders to mobile service representatives' shifts using constraints of the order and constraints of the mobile representative (See page 4, sections 2-3). However MDSI Mobile Data Solutions does not expressly disclose and Sisley et al. discloses adding a shift, wherein adding a shift includes identifying a mobile service representative to be associated with the shift, a start time, an end time (See column 6, lines 1-25, column 7, lines 5-22 and line 60-column 8, line 10, wherein a new call is added with a start time, end time, etc.). Sisley et al. also discloses a set of breaks (See column 6, lines 1-5, which discloses breaks, such as appointments, in the schedule of the technician).

Both Sisley et al. and MDSI Mobile Data Solutions disclose systems that assign mobile field technicians to work calls using automated means. Further, both disclose assigning the best technicians based on the appointment window, a duration, a priority, a location, and a set of skills of the technician and service call. Sisley specifically discloses start and end days for employee vacations, appointments, etc. when the technician will not be working. Therefore, it

would have been obvious to one of ordinary skill in the art at the time of the invention to allow a new shift to be added, along with times and breaks associated with the technician and the shift, in order to increase customer satisfaction by improving the timeliness and predictability of resource delivery and increase dispatcher productivity through automated assignment and scheduling, which includes shift times. See column 3, lines 50-55, of Sisley et al.

As per claim 38, MDSI Mobile Data Solutions teaches finding a list of appointment windows for the act of negotiating (See page 3, sections 1-2, page 4, and page 5, section 3, which discusses appointment windows).

As per claim 39, MDSI Mobile Data Solutions discloses assigning forcibly a reservation when the act of assigning the reservation has failed (See page 4, section 3, which discusses the dispatcher overriding or manually entering a reservation).

As per claim 40, MDSI Mobile Data Solutions teaches removing an assignment of a reservation (See page 5, section 4, wherein an assignment is removed).

As per claim 41, MDSI Mobile Data Solutions teaches canceling a reservation (See page 5, section 4, wherein the reservation is canceled when no one is available).

As per claim 42, MDSI Mobile Data Solutions teaches completing a reservation so as to inhibit the reservation from being bumped, aggregated, or moved to another shift (See page 3, section 2, page 4, sections 1 and 3, wherein an emergency reservation cannot be bumped).

As per claims 43 and 44, MDSI Mobile Data Solutions teaches reassigning forcibly a reservation (See page 4, section 3, wherein the dispatcher rebalances the assignments manually).

As per claim 45, MDSI Mobile Data Solutions teaches assigning a bumped or a yanked reservation (See page 4, section 3, wherein a bumped reservation is reassigned when rebalancing occurs).

As per claim 46, MDSI Mobile Data Solutions teaches setting at least one property from a set of properties of a reservation (See page 4, which sets information about the appointment).

As per claim 47, MDSI Mobile Data Solutions teaches modifying a mobile service representative (See page 4, section 3, wherein the representative's assignments are changed).

As per claim 48, MDSI Mobile Data Solutions teaches deleting a mobile service representative (See page 4, sections 2-3, wherein when an order is reassigned, the worker is deleted from the task).

As per claims 49 and 50, MDSI Mobile Data Solutions teaches modifying forcibly a shift (See page 4, section 3, wherein the representative's assignments are changed).

As per claims 51 and 52, MDSI Mobile Data Solutions teaches rebalancing a schedule and removing a shift from the schedule of one worker and placing the shift on another schedule (See page 4). However, MDSI Mobile Data Solutions does not expressly disclose and Sisley et al. discloses deleting forcibly a shift (See column 7, line 60-column 8, line 15, column 19, lines 15-35).

Both Sisley et al. and MDSI Mobile Data Solutions disclose systems that assign mobile field technicians to work calls using automated means. Sisley specifically discloses removing shifts and reassigning the shifts. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include deleting a shift of the user in order to increase

customer satisfaction by allowing the system to compensate for all possible changes. See pages 1 and 3 of MDSI Mobile Data Solutions.

As per claim 53, MDSI Mobile Data Solutions teaches notifying a subscriber when a reservation event occurs (See page 5, section 4, wherein the customer is notified via call ahead).

As per claim 54, MDSI Mobile Data Solutions teaches getting reservation assignment information (See page 4, section 2-3, wherein the system receives the assignment information).

As per claims 55 and 56, MDSI Mobile Data Solutions teaches getting mobile service representative assignment information (See page 1, section 1, page 3, page 4, section 1, page 5, section 1, page 6, wherein the assignment is communicated to the mobile worker).

As per claim 57, MDSI Mobile Data Solutions teaches confirming a reservation (See page 5, section 4, wherein the reservation is confirmed).

Claims 58-60 and 62-81 recite equivalent limitations to claims 34-36 and 38-57, respectively, and are therefore rejected using the same art and rationale as applied above.

Response to Arguments

4. Applicant's arguments with regards to MDSI Mobile Data Solutions (www.mdsi-advantex.com) in view of Sisley et al. (U.S. 5,467,268) and in further view of Lesaint et al. (U.S. 6,578,005) have been fully considered, but they are not persuasive. In the remarks, Applicant argues that (1) MDSI Mobile Data Solutions does not teach or suggest analyzing shifts of mobile service representatives to identify shifts that are suitable for the reservations and sorting the identified shifts according to objective criteria, (2) MDSI Mobile Data Solutions does not teach or suggest the manner in which the field personnel to whom the order is automatically assigned is determined, and (3) Lesaint et al. does not teach or suggest aggregating reservations into a

shift or based on reservation information, but rather assigning multiple technicians to the same

task.

In response to argument (1), Examiner respectfully disagrees. Examiner first points out that she did rely on MDSI Mobile Data Solutions to teach analyzing shifts of mobile service representatives to identify shifts that are suitable for reservation. However, it was Sisley et al. that was relied on to disclose sorting the identified shifts according to objective criteria. MDSI Mobile Data Solutions teaches that the system considers the availability of a mobile service representative to take a call based on his/her schedule in page 3, page 4, sections 2-3, and page 5, sections 2-3. Thus, shifts that are available are suitable to makes reservations in. MDSI Mobile Data Solutions further teaches considering the location of the worker when booking the technician. See page 3, sections 1-2, and page 4. Sisley et al. was relied upon to disclose sorting the identified shifts according to objective criteria and booking a shift starting with the best shift and in descending order to the worst shift. Sisley et al. specifically discloses sorting the shifts based on skills, availability, etc. and then listing them in a "best-first" queue, as set forth above. Thus, these elements are taught by MDSI Mobile Data Solutions in view of Sisley et al. and in further view of Lesaint et al. (which are analogous art and have motivation to combine, as set forth above).

In response to argument (2), Examiner respectfully points out that none of claims 1, 11, 21, 34, and 58 specifically recite the term automatic or that the order is automatically assigned to the field personnel. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Examiner points out that MDSI Mobile Data Solutions does

disclose, however, on page 4, section 1, that the system can work in automatic mode or recommend mode, and thus can perform automatic assignment based on the known parameters.

In response to argument (3), Examiner respectfully disagrees. Examiner first points out that the limitations directed towards aggregating reservations of the shift have enabled aggregation indicators and in accordance with an aggregation parameter set defining information of reservations to be compared during aggregation in the independent claims was added in the current amendment. Previously presented claim 28 (now canceled) recited "wherein the order includes several orders that have been aggregated", which did not have the same scope as the currently added limitations. Thus, new art rejections based on Lesaint et al. have been set forth above, as necessitated by amendment. Examiner further notes that this amendment has changed the scope of the term "aggregation indicator" previously presented in independent claims 1, 11, 21, 34, and 58.

Lesaint et al. discloses that information concerning the tasks to be scheduled is input into the system. This information causes tasks that must be allocated to the same technician in a predetermined order to be pulled and scheduled, as well as tasks required more than one person at a single location. See column 12, lines 25-45. In cases where a task requires more than one person, the task is treated as a group of linked tasks with aligned start times on the multiple persons' schedules. Thus, these tasks are indicated to the system as linked/collective and the tasks are scheduled to shifts by aligning start times. See column 14, lines 15-25. In the case of tasks that must be allocated to the same technician in a predetermined order, the preprocessor schedules this list of tasks with the technician. Thus, the system determines (based on

predetermined ordering parameters) the order in which the aggregated tasks (collective tasks) should be scheduled. These tasks are indicated to the system as linked/collective.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beth Van Doren whose telephone number is (571) 272-6737. The examiner can normally be reached on M-F, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

bvd

January 30, 2007

Beth Van Dora AU 3623 Patent Examiner